

# Brookside Gardens Irrigation System -- No. 848704

Category **M-NCPPC**  
 Agency **M-NCPPC**  
 Planning Area **Kemp Mill-Four Corners**  
 Relocation Impact

Date Last Modified  
 Previous PDF Page Number  
 Required Adequate Public Facility

October 25, 2005  
 21-17 (03 App)  
 NO

## EXPENDITURE SCHEDULE (\$000)

Cost Element	Total	Thru FY05	Est. FY06	Total 6 Years	FY07	FY08	FY09	FY10	FY11	FY12	Beyond 6 Years
Planning, Design and Supervision	207	1	26	180	39	99	42	0	0	0	0
Land											
Site Improvements and Utilities	1,199	0	0	1,199	256	714	229	0	0	0	0
Construction	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>1,406</b>	<b>1</b>	<b>26</b>	<b>1,379</b>	<b>295</b>	<b>813</b>	<b>271</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

## FUNDING SCHEDULE (\$000)

G.O. Bonds	1,379	0	0	1,379	295	813	271	0	0	0	0
Contributions	0	0	0	0	0	0	0	0	0	0	0
Current Revenue:											
General	27	1	26	0	0	0	0	0	0	0	0
Enterprise Park and Planning	0	0	0	0	0	0	0	0	0	0	0

## ANNUAL OPERATING BUDGET IMPACT (\$000)

Maintenance				5	0	1	1	1	1	1	0
Energy				0	0	0	0	0	0	0	0
Program-Staff				0	0	0	0	0	0	0	0
Program-Other				3	3	0	0	0	0	0	0
Cost Savings				0	0	0	0	0	0	0	0
Net Impact				8	3	1	1	1	1	1	0
Workyears				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

## DESCRIPTION

Brookside Gardens, established in 1969 in Wheaton Regional Park, consists of a 50-acre public garden and Visitor's Center that receives over 300,000 visitors annually. This project provides for redesign of the garden's water distribution system.

FY07-08: Install Phase 1 irrigation. Phase 1 provides main lines only throughout the gardens, new ground pits, and building hook-ups. An additional connection will be installed at 1500 Glenallen. From the conservatory, a 4-inch line will be installed through the grounds to connect with existing irrigation lines and facilities. All facility water line connections will be upgraded from a 2-inch to a 4-inch line. The main lines will be located so as not to interfere with any improvements suggested by the Master Plan. Phase 1 provides more reliable water service to all facilities for visitor needs, fire safety, and plant health; an increase in water pressure to gardens, conservatory, and plant production greenhouses which allows irrigation to occur when needed; and brings ground pits to code.

FY08-09: Install Phase 2 irrigation. Phase 2 irrigation provides main lines throughout all gardens and grounds. The system consists of a variety of sizes of PVC pipes and sprinkler heads depending on the specialized needs of each area. Sprinkler heads are chosen for delivering water directly and efficiently to the plant. Water use will be monitored, controlled, and timed by computer and a weather station to maximize efficient water use. Watering can be scheduled in the late evening/early morning hours to avoid visitors and lessen evaporation. The system is designed for the current layout of the gardens. Phase 2 provides reliable and accessible water service to all garden and grounds areas; reduces annual costs for hoses and watering supplies; improves water conservation; and improves plant health and growth.

## JUSTIFICATION

Irrigation protects the Commission's investment in plants and provides proper maintenance of the gardens. The current antiquated system provides low water pressure, does not provide water access in all garden areas, involves a high annual maintenance/repair costs, and has unsafe/hazardous turn-off pits. An 8-inch line serves the visitor's center and a 2-inch line serves the conservatory, gardens, ground, plant production greenhouse, and four staff buildings in the service area. The system consists of corroded metal pipes, PVC and black poly tubing, and non-code ground pits housing shut-off valves. The system breaks and leaks periodically throughout the year. Water pressure is extremely low when one area of the gardens is being watered; for example, the conservatory cannot water when a garden is being watered. Low water pressure is an everyday occurrence on the grounds, at the conservatory and in the growing greenhouses. Many gardens are watered by inefficient, overhead systems, with delivery trucks, or by hand. Hoses pose tripping hazards for visitors. Brookside Gardens generates over \$500,000 in revenues annually. Loss of plants or deterioration in appearance of the gardens has a direct impact on donor and revenue programs.

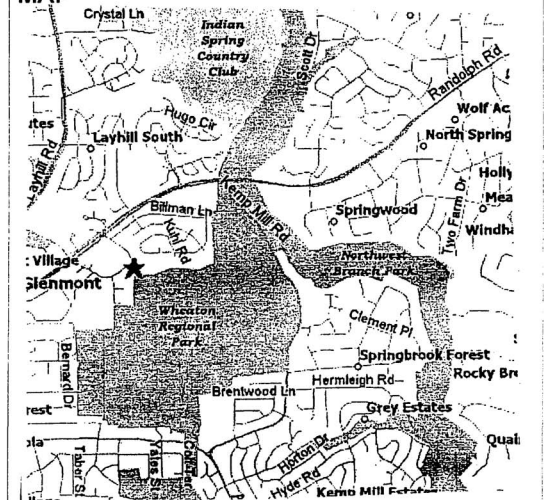
## APPROPRIATION AND EXPENDITURE DATA

Date First Appropriation	FY84	(\$000)
Initial Cost Estimate		190
First Cost Estimate		
Current Scope	FY97	2,107
Last FY's Cost Estimate		1,556
Present Cost Estimate		1,406
Appropriation Request	FY07	1,379
Appropriation Req. Est.	FY08	0
Supplemental		
Appropriation Request	FY06	0
Transfer		0
Cumulative Appropriation		27
Expenditures/		
Encumbrances		25
Unencumbered Balance		2
Partial Closeout Thru	FY04	2,393
New Partial Closeout	FY05	0
Total Partial Closeout		2,393

## COORDINATION

Stream Protection PDF 818571  
 Facility Planning: Non-Local PDF 958876  
 Brookside gardens master plan implementation,  
 PDF 078702

## MAP



**Plans and Studies**

The Brookside Gardens Master Plan was approved by the Planning Board in 2004. The master plan guides garden renewal, renovations to existing structures and development of new amenities and facilities, however, the PDF scope of work is not dependent on approval of the Master Plan.

**Cost Change**

Decrease due to removal of funding for renovation of Gude Gardens in this PDF.

**STATUS**

Final design stage.

**OTHER**

A new PDF has been created for implementation of projects identified in the Brookside Gardens master plan.

**FISCAL NOTE**

Reduced by \$150,000 for contributions anticipated for Gude Gardens renovation. This phase has been removed and added to Brookside Gardens master plan implementation PDF 078702.